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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/534,575	06/05/2006	Paul Wentworth	1361.027US2 3392		
26621 THE SCRIPPS	7590 12/12/2007 S RESEARCH INSTITUTE	EXAMINER			
OFFICE OF PATENT COUNSEL, TPC-8			ARCHIE, NINA		
10550 NORTH LA JOLLA, C	I TORREY PINES ROAD A 92037		ART UNIT	PAPER NUMBER	
			1645		
			MAIL DATE	DELIVERY MODE	
			12/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicatio	n No.	Applicant(s)	
		10/534,57	5	WENTWORTH ET AL.	
	Office Action Summary	Examiner		Art Unit	
		Nina A. Ard		1645	
Period fo	<ul> <li>The MAILING DATE of this communic r Reply</li> </ul>	ation appears on the	cover sheet with the c	orrespondence ad	dress
WHIC - Exten after S - If NO - Failur Any re	DRTENED STATUTORY PERIOD FO HEVER IS LONGER, FROM THE MA sions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commuperiod for reply is specified above, the maximum statuse to reply within the set or extended period for reply was ply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF TH f 37 CFR 1.136(a). In no evenication. utory period will apply and will ill, by statute, cause the appli	IS COMMUNICATION ont, however, may a reply be time expire SIX (6) MONTHS from to become ABANDONE	l. ely filed the mailing date of this co O (35 U.S.C. § 133).	
Status					
2a)☐ 3)☐	Responsive to communication(s) filed This action is <b>FINAL</b> . 2t Since this application is in condition followed in accordance with the practice	o)⊠ This action is no or allowance except t	or formal matters, pro		e merits is
Dispositi	on of Claims		,		·
5)	Claim(s) 1-42 is/are pending in the application (s) 1-42 is/are pending in the application (s) 1-42 is/are allowed.  Claim(s) 1-42 is/are allowed.  Claim(s) 1-42 is/are rejected.  Claim(s) 1-42 are subject to restriction (s) 1-42 are subject to restriction (s) 1-42 are subject to restriction (s) 1-42 are subject to pending (s) filed on 1 is/are:  Applicant may not request that any object (s) including (s) filed on 1 is/are:  Replacement drawing sheet(s) including (s)	e withdrawn from corn and/or election requestion in an and/or election requestion in an and/or election require to the drawing(s) but the correction is require	uirement.  objected to by the leading abeyance. See the seed of the drawing(s) is object is object.	e 37 CFR 1.85(a). jected to. See 37 CI	
· —	The oath or declaration is objected to	by the Examiner. No	te the attached Office		0-132.
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some colon None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application Paper No(s)/Mail Date					

10/534,575 Art Unit: 1645

### **DETAILED ACTION**

### Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- 1. Group I: claims 1-20 drawn to an antimicrobial composition.
- 2. Group II: claims 21-39 drawn to a method of treating a microbial infection in a mammal.
- 3. Group III: claims 40-47 drawn to a method of generating a reactive oxygen species to inhibit the growth of a microbe.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature of Group I is a antimicrobial composition. The technical feature of Group 1 is anticipated by Wentworth et al WO 2002/22573A2. Wentworth et al teach an antimicrobial composition consisting essentially of an antibody that can bind to a microbe (bacterial antigen), and a pharmaceutically carrier, wherein the antibody can generate a reactive oxygen species when singlet oxygen (O<sub>2</sub>) is present (see abstract, pg. 3-5, 9-13, and 25). The special technical feature of Group II is a method of Group I, a method of treating a microbial infection in a mammal. Group I lacks unity with Group II because they do not have the same technical feature.

10/534,575 Art Unit: 1645

## **Election of Species**

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

If the Applicant elects Group I or Group II, the Applicant is required to elect a combination of single individual species from Group I and II listed below.

Species I-sensitizer molecule;
A) Pterin;
B) Flaying;
C) Hematoporphyrin;
D) Tetrakis(4- sulfonatophenyl)porphyrin;
E) Bipyridyl ruthenium(H) complex;
F) Rose Bengal dye;
G) Quinone;
H) Rhodamine dye;
I) Phthalocyanine;
J) Hypocrellin;
K) Rubrocyanin;
L) Pinacyanol;
M) Allocyanin;
N) Chlorine;

Species II-microbe;

A) Aeromonas spp.;

K) Helicobacter pylori;

P) Influenza virus type A;

10/534,575 Art Unit: 1645

- Q) Influenza virus type B;
- R) Flavivirus;
- S) Coronavirus;
- T) Paramyxovirus;
- U) Morbillivirus;
- V) Pneumovirus;
- X) Rhabdovirus;
- Y) Lyssavirus;
- Z) Orthmyxovirus;
- AA) Bunyavirus;
- BB) Phlebovims;
- CC) Nairovirus;
- DD) Hepadnavirus;
- EE) Arenavirus;
- FF) Retrovirus;
- GG) Enterovirus;
- HH) Rhinovims;
- II) Filovirus;

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of

10/534,575 Art Unit: 1645

record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nina Archie whose telephone number is 571-272-9938. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's acting supervisor, Shannon Foley can be reached on 571-272-8975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nina Archie

Patent Examiner

Mame

Art unit, 1645

MARK NAVARRÖ

10/534,575 Art Unit: 1645

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2. Group II: claims 21-39 drawn to a method of treating a microbial infection in a mammal.

STOP MISSI'S III) 40-47 | method of governing of species.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature of Group I is a antimicrobial composition. The technical feature of Group 1 is anticipated by Wentworth et al WO 2002/22573A2. Wentworth et al teach an antimicrobial composition consisting essentially of an antibody that can bind to a microbe (bacterial antigen), and a pharmaceutically carrier, wherein the antibody can generate a reactive oxygen species when singlet oxygen (O<sub>2</sub>) is present (see abstract, pg. 3-5, 9-13, and 25). The special technical feature of Group II is a method of Group I, a method of treating a microbial infection in a mammal. Group I lacks unity with Group II because they do not have the same technical feature.

# Election of Species

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10/534,575 Art Unit: 1645

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F) Quinone;				
G) Rhodamine dye;				
H) Phthalocyanine;				
I) Hypocrellin;				
J) Rubrocyanin;				
K) Pinacyanol;				
L) Allocyanin;				
M) Chlorine;				
Species II-microbe;				
A) Aeromonas spp.;				
B) Bacillus spp.;				
C) Bacteroides spp.;				
D) Campylobacter spp.;				
E) Clostridium spp.;				
F) Enterobacter spp.;				
G) Enterococcus spp.:				

H) Escherichia spp.;

I) Gastrospirillum spp.;

Application/Control Number: 10/534,575 Art Unit: 1645	Page 4
J) Helicobacter spp.;	
K) Klebsiella spp.;	
L) Salmonella spp.;	
M) Shigella spp.;	
N) Staphylococcus spp.;	
O) Pseudomonas spp.;	
P) Vibrio spp.;	
Q) Yersinia;	
Q) Tersina,	
Species III-microbe;	
	sistant strain of Staphylococcus aureus;
B) Salmonella typhi;	
C) Salmonella typhimurium;	•
D) Escherichia coli;	
E) Escherichia coli O157:H7;	
F) Shigella dysenteria;	
G) Psuedomonas aerugenosa;	
H) Pseudomonas cepacia;	•
I) Vibrio cholerae;	
K) Helicobacter pylori;	
L) Vancomycin-resistant strain of Entero	ococcus faecium; Vancomycin-resistant
strain of Enterococcus faecalis;	
Species IV-microbe;	
A) DNA virus;	
B) RNA virus;	
C) virioid;	
D) prion;	

10/534,575 Art Unit: 1645

If applicant elects Species III, Applicant must further elect single individual species for Group I and II of Species V.

Species V-virus;
A) Hepatitis A virus;
B) Hepatitis B virus;
C) Hepatitis C virus;
D) Human immunodeficiency virus;
E) Poxvirus;
F) Herpes virus;
G) Adenovirus;
H) Papovavirus;
I) Parvovirus;
J) Reovirus;
K) Orbivirus;
L) Picornavirus;
M) Rotavims;
N) Alphavirus;
O) Rubivirus;
P) Influenza virus type A;
Q) Influenza virus type B;
R) Flavivirus;
S) Coronavirus;
T) Paramyxovirus;
U) Morbillivirus;
V) Pneumovirus;
X) Rhabdovirus;
Y) Lyssavirus;

Z) Orthmyxovirus;

10/534,575 Art Unit: 1645

- AA) Bunyavirus;
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10/534,575 Art Unit: 1645

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Nina Archie Patent Examiner Art unit, 1645 Remsen 3B31